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Toshiba IP Video Monitoring/Surveillance Cameras

IP NETWORK CAMERAS

ONVIF Compliant

ANALOG CAMERAS

CAMERA MODEL	IK-WB30A	IK-WB70A	IK-WD01A (standard) IK-WD01A-3.3-12	IK-WB16A-W	IK-WB16A	IK-WR12A	IK-WB21A	IK-WD12A	IK-WB80A	IK-WD14A	IK-6210A	IK-6420A	IK-6550A	IK-64DNA	IK-65WDA	IK-1000	IK-VR01A	IK-DF02A	IK-DP30A	IK-7200A (IR*)	IK-DF03A
Image sensor	1/3.2" IT CMOS	1/3" IT CMOS	1/4" IT CMOS	1/3.2" IT CMOS	1/3.2" IT CMOS	1/3.2" CMOS	1/4 Super CCD	1/3.2" CMOS	1/3.2" CMOS	1/2.7" CMOS (16 x 9)	1/3" IT CCD	1/3" IT CCD	1/3" IT CCD	1/3" IT CCD (IR)	1/3" IT CCD	1/2" EMCCD, Peltier Cooled	1/3" IT CCD	1/3" IT CCD	1/4" IT CCD	1/3" CCD	1/3" SuperHAD CCD
Maximum resolution	1600 x 1200	640 x 480	640 x 480	1600 x 1200	1600 x 1200	1600 X 1200	1280 x 960	1600 x 1200	1600 x 1200	1920 x 1080	350 TV Lines	540 TV Lines	540 TV Lines	570 TV Lines (B/W), 480 (C)	520 TV Lines	420 TV Lines	480 TV Lines	520 TV Lines	480 TV Lines	480 TV Lines	480 TV Lines
Minimum illumination	0.01 lux @ F=1.4	0 lux (IR LED On)	0.1 lux @ F=1.4	0.6 lux @ F=2.0	0.6 lux @ F=2.0	0.0 lux @ F1.2 (IR LED On)	0.13 lux @ F=1.6	0.04 lux @ F=1.2	0.0 lux with IR-LED on	--	0.2 lux @ F=1.0	0.2 lux @ F=1.0	0.2 lux @ F=1.2	0.003 (B/W), 0.1 (C) @ F=1.2	0.001 lux @ F=1.2	0.00025 lux @ F=1.2	0.2 lux @ F=1.0	0.5 lux @ F=1.0	0.01 lux @ F=1.0	0 lux @ 10 IRE (LEDS ON)	0.5 lux @ 10 IRE
Compression	Dual MPEG-4/JPEG	Dual MPEG-4/JPEG	Dual MPEG-4/JPEG	Dual MPEG-4/JPEG	Dual MPEG-4/JPEG	Dual MPEG-4/JPEG	Motion JPEG	Dual MPEG-4/JPEG	Dual MPEG-4/JPEG	Quad H.264/MPEG-4/JPEG	--	--	--	--	--	--	--	--	--	--	--
Frames per second	Up to 30	Up to 30	Up to 30	Up to 30	Up to 30	Up to 30	Up to 30	Up to 30	Up to 30	Up to 30	--	--	--	--	--	--	--	--	--	--	--
Lens	not included* (CS mount)	Varifocal 3.3-12mm	Varifocal 2.0-4.0mm (standard) Varifocal 3.3-12mm (3.3-12 model) 2x optical, 4x digital (standard) 3.6x optical, 4x digital (3.3-12 model)	f=3.6mm, F=1.8	f=3.6mm, F=1.8	Varifocal f=3mm - 9mm	Zoom, 4.0mm - 88mm	Varifocal 3mm - 9mm	Varifocal 3mm - 9mm	f=3mm - 9mm	not included (CS Mount)	not included (CS Mount)	not included (CS Mount)	not included (CS Mount)	not included (CS Mount)	not included (CS Mount)	Varifocal 3.0mm - 8.0mm	Varifocal 2.8mm - 10mm	Zoom, 4.1mm - 73.8mm	Varifocal 3.7 - 10mm	**3.6mm, 8.0mm or 12mm
Zoom	4x digital	3.6 optical (4x digital)	4x digital	4x digital	4x digital	3x optical (4x digital)	22x optical	3x optical, (4x digital)	3x optical, (4x digital)	3x optical, (4x digital)	--	--	--	--	--	--	Manual (2.6x optical)	Manual (3.5x optical)	18x Optical, 12X Digital	2.8X optical	--
Wireless	No	No	No	802.11n (IK-WB16A-W)	No	No	No	No	No	No	--	--	--	--	--	--	--	--	--	--	--
Ethernet network	10 Base T/ 100 Base TX (RJ45)	10 Base T/ 100 Base TX (RJ45)	10 Base T/ 100 Base TX (RJ45)	10 Base T/ 100 Base TX (RJ45)	10 Base T/ 100 Base TX (RJ45)	10 Base T/ 100 Base TX (RJ45)	10 Base T/ 100 Base TX (RJ45)	10 Base T/ 100 Base TX (RJ45)	10 Base T/ 100 Base TX (RJ45)	10 Base T/ 100 Base TX (RJ45)	--	--	--	--	--	--	--	--	--	--	--
Power over Ethernet	802.3af	802.3af	802.3af	--	802.3af (IK-WB16A)	802.3af	--	802.3af	802.3af	802.3af	--	--	--	--	--	--	--	--	--	--	--
Auto white balance (AWB)	Yes	Yes	Yes	Yes	Yes	Yes	Normal/ wide	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
AWB range	2500° K to 10000° K	2500° K to 10000° K	--	2500° K to 10000° K	2500° K to 10000° K	2500° K to 10000° K	--	2800° K to 10000° K	2800° K to 10000° K	2500° K to 10000° K	2500° K to 10000° K	2500° K to 10000° K	2500° K to 10000° K	2500° K to 10000° K	2500° K to 10000° K	--	2500° K to 10000° K	2500 K to 10000° K	2000 K to 10,000° K	2500 K to 9500° K	2500 K to 9500° K
Synchronization system	--	--	--	--	--	--	--	--	--	--	Internal or AC line lock	Internal or AC line lock	Internal or AC line lock	Internal or AC line lock	Internal or AC line lock	Internal	Internal or AC line lock	Internal or AC line lock	Internal or AC line lock	Internal	Internal
Day/night imaging	Yes (removable IR-cut filter)	Yes (removable IR-cut filter)	--	--	--	Yes (removable IR-cut filter)	Yes	Yes (removable IR-Cut Filter)	Yes (removable IR-Cut Filter)	Yes (removable IR-Cut Filter)	Yes	Yes	Yes	Yes (removable IR-cut filter)	Yes	Yes (Color)	Yes	Yes	Yes	Yes	Yes
Sharpness/Flickerless	Yes	Yes	--	Yes	Yes	Yes	Sharp/Standard/Off	Yes	Yes	Yes	--	--	Low/Mid/High	--	Low/Mid/High	--	--	--	--	--	--
Color gain	--	--	--	--	--	--	Yes	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Digital noise reduction	--	--	--	Yes	Yes	Yes	--	Yes	Yes	Yes	Yes	Yes	Yes	--	Yes	Adaptive Recursive (pixel comparison)	--	Yes	--	Yes	--
Automatic gain control	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	--	Yes	Yes	--	Yes	Yes	Yes	Yes
Pan	--	--	±175°	Yes ±175° (auto)	Yes ±175° (auto)	350°	350°	±175°	--	350°	--	--	--	--	--	--	Manual	Manual 350°	360° Continuous	--	350°
Tilt	--	--	+85° to -35°	+90° to -23°	+90° to -23°	85°	60°	+85° to -35°	--	+81°	--	--	--	--	--	--	Manual	Manual 146°	92°	--	75°
Optional external memory	SD, SDHD cards	--	--	Micro SD cards	Micro SD cards	SD, SDHC	SD card	SD, SDHC card	SD, SDHC card	Micro SD card	--	--	--	--	--	--	--	--	--	--	--
Motion detection	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	--	--	--	--	--	--	--	--	--	--	--
Backlight compensation	Yes	Wide Dynamic	Yes, Selectable	Yes	Yes	Yes	Yes, selectable	Yes, center zone	Yes, center zone	Yes, center zone	Yes	Yes	Yes	Yes	Wide Dynamic (6 mode)	7 Mode, 16 Area Photometry	Yes	Yes	Yes	Yes (always on)	Yes (always on)
Audio	Mic in/ Line out (SIP)	Mic in/ Line out	Mic in/ Line out	Built-in mic/Mic in/ Line out	Built-in mic/Mic in/ Line out	Mic in/Line out (SIP)	Mic in/ Line out	Built-in mic/Mic in/ Line out	Mic in/ Line out	Mic in/Line out (SIP)	--	--	--	--	--	--	--	--	--	--	--
Alarm I/O	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	--	--	--	--	--	--	--	--	--	--	--
IR LEDs	--	16 LEDs, range 33 ft	--	--	--	18 LEDs, range 66 ft	--	--	24 LEDs, range 82ft	2 SR LEDs	--	--	--	--	--	--	--	--	--	36 LEDs, 82 ft range*	--
Power	PoE, 24 V AC & 12 V DC	PoE, 24 V AC & 12 V DC	PoE, 12 V DC	12 V DC	PoE, 12 V DC	PoE, 24V AC & 12 V DC	12 V DC	PoE, 12 V DC	PoE, 24V AC & 12 V DC	PoE, 12 V DC, 24V AC	24 V AC, 12 V DC	24 V AC, 12 V DC	24 V AC, 12 V DC	24 V AC, 12 V DC	24 V AC, 12 V DC	12 V DC	24 V AC, 12 V DC	24 V AC, 12 V DC	24 V AC	12 V DC	12 V DC
Power consumption	8W	6W	3.6W	6.6W	6.6W	7.2W (12VDC), 14.4W (24VAC)	10 Watts	7.2W	8W (12VDC), 14.4W (24VAC)	TBD	4.5 Watts	4.5 Watts	4.5 Watts	4.5 Watts	4.5 Watts	6W (77° F), 12W (104° F)	4 Watts	3.5 Watts	35 Watts	4.5 Watts (w/LED ON)	2.0 W
Environmental rating	--	IP66	--	--	--	IP66 (w/heater, blower)	--	--	IP66 outdoors	--	--	--	--	--	--	--	IP66	--	--	IP66	IP65
Safety standard	UL, CSA	UL2044	UL2044	UL, CSA	UL, CSA	UL60950, CSA C22.2	UL2044	UL60950, CSA C22.2	UL60950, CSA C22.2	UL60950, CSA C22.2	UL2044	UL2044	UL2044	UL2044	UL2044	UL2044	UL2044	UL2044	UL2044	UL2044	UL2044
Emission standard	FCC Class A, DOC Class A	FCC/B, ICES-003	FCC Class A, DOC Class A	FCC Class A, DOC Class A	FCC Class A, DOC Class A	FCC Class A and B, IC	FCC Class A	FCC/B, IC	FCC/A, IC	FCC/B, IC	FCC Class A	FCC Class A	FCC Class A	FCC Class A	FCC Class A	FCC Class A	FCC Class A	FCC Class A	FCC Class A	FCC Class A	FCC Class A
RoHS compliant	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	--	Yes	Yes	Yes	Yes	Yes
Software	Installation Wizard	Installation Wizard	Installation Wizard	Installation Wizard	Installation Wizard	Installation Wizard	Camera finder	Installation Wizard	Installation Wizard	Installation Wizard	--	--	--	--	--	--	--	--	--	--	--
Operating system	Linux	Linux	Linux	Linux	Linux	Linux	Linux	Linux	Linux	Linux	--	--	--	--	--	--	--	--	--	--	--
Vandal/Weather resistant	--	Yes	--	--	--	Yes	--	--	Yes	--	--	--	--	--	--	--	Yes	--	--	ADC-12 aluminum	ADC-12 aluminum
Transformer	--	--	--	--	--	--	12V	--	--	--	--	--	--	--	--	12V (optional)	--	--	--	--	--
Mount (included)	--	Wall	Ceiling	Ceiling Mount Bracket	Ceiling Mount Bracket	Flush or Ceiling	Ceiling	Ceiling	Wall	Ceiling	--	--	--	--	--	--	Flush or Ceiling	Flush	--	Wall or ceiling	Ceiling
ACCESSORIES																					
Outdoor enclosure	JK-ACH13HBN* (with wall mount)	Wall mount and sun shield included	--	JK-SMSC-0, JK-SMST-0	JK-SMSC-0, JK-SMST-0	JK-PHO12	JK-SMSC-0, JK-SMST-0		Wall mount and sun shield included	Features a wide dynamic range for challenging lighting environments	JK-ACH13HBN* (w/ wall mount)	JK-ACH13HBN* (w/ wall mount)	JK-ACH13HBN* (w/ wall mount)	JK-ACH13HBN* (w/ wall mount)	JK-ACH13HBN* (w/ wall mount)	--	--	--	JK-PHI/JK-PHO	*Camera's built-in photocell activates IR under 10 lux.	**Lens Notes: IK-DF03A-3.6: 3.6mm IK-DF03A-8: 8.0mm IK-DF03A-12: 12mm
Vandal resistant enclosure	--		JK-CMWD01A	JK-SMSC-0, JK-SMST-0, JK-SMSC-1, JK-SMST-1	JK-SMSC-0, JK-SMST-0, JK-SMSC-1, JK-SMST-1	JK-PHO12	JK-SMSC-0, JK-SMST-0, JK-SMSC-1, JK-SMST-1				--	--	--	--	--	--	--	--	JK-RPHI/JK-RPHO		
Ceiling enclosure	--		--	JK-MRSC, JK-MRST	JK-MRSC, JK-MRST	--	JK-MRSC, JK-MRST				--	--	--	--	--	--	--	--	JK-CTA (requires JK-H01A)		
Wall bracket	--		--	JK-WM16	JK-WM16	--	FSM-WB21	JK-CMWD01A			--	--	--	--	--	--	FSM-WR01A	--	--		
Wall mount	*comes with wall mount		--	JK-WM	JK-WM	JK-WM12	JK-WM				*comes with wall mount	*comes with wall mount	*comes with wall mount	*comes with wall mount	*comes with wall mount	--	--	--	JK-WM		
Ceiling mount	--		--	--	--	--	--				--	--	--	--	--	--	--	--	JK-H01A		
Pole mount	--		--	JK-PMA	JK-PMA	JK-PMA12	JK-PMA				--	--	--	--	--	--	--	--	JK-PMA		
Corner mount	--		--	JK-CMA	JK-CMA	JK-CMA12	JK-CMA				--	--	--	--	--	--	--	--	JK-CMA		
Parapet mount			--	JK-PM	JK-PM	--	JK-PM				--	--	--	--	--	--	--	--	JK-PM		FSM-DF03A
Other accessories	YW430285A-SA2: 2.8-12mm MP lens YS3215SA-SA2: 15-50mm MP lens YV2128SRAA-SA2: 2.8-6mm MP lens *Also available in kits		--	JK-JBA1: mounting adapter for 4" and 4-11/16" square electrical boxes, REC-WB16-A-1: free recording software	JK-JBA1: mounting adapter for 4" and 4-11/16" square electrical boxes, REC-WB16-A-1: free recording software	JK-PMH12: Pendant mount head, JK-PMP12: Pendant mount pipe	--				YF2.8A-SA2LB, YV10X5B-SA2L, YV5X2.7R4B-SA2L, YV2.8X2.8L4SA2L, YV2.2X1.4A-SA2L, YV2.7x2.9LR4DSA YV10x5R4A-SA2L	YF2.8A-SA2LB, YV10X5B-SA2L, YV5X2.7R4B-SA2L, YV2.8X2.8L4SA2L, YV2.2X1.4A-SA2L, YV2.7x2.9LR4DSA YV10x5R4A-SA2L	YF2.8A-SA2LB, YV10X5B-SA2L, YV5X2.7R4B-SA2L, YV2.8X2.8L4SA2L, YV2.2X1.4A-SA2L, YV2.7x2.9LR4DSA YV10x5R4A-SA2L	YF2.8A-SA2LB, YV10X5B-SA2L, YV5X2.7R4B-SA2L, YV2.8X2.8L4SA2L, YV2.2X1.4A-SA2L, YV2.7x2.9LR4DSA YV10x5R4A-SA2L	YF2.8A-SA2LB, YV10X5B-SA2L, YV5X2.7R4B-SA2L, YV2.8X2.8L4SA2L, YV2.2X1.4A-SA2L, YV2.7x2.9LR4DSA YV10x5R4A-SA2L	D60x12.5R3DE-ZP1, C22x17R2D-ZP1, C2211.5R2D-ZP1, H22x11.5R2D-ZP1	YV3.3x15R4A-SA2 15mm to 50mm @ F=1.5	--	--	--	

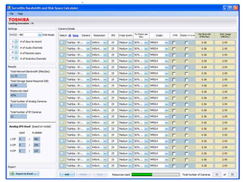
Video Servers

NE-VS201 Network Encoder
One channel encoder capable of RS-485 control of PTZ cameras, audio transmission, and has 12vDC output for analog cameras. Integrated microSD card slot for recording when detecting motion

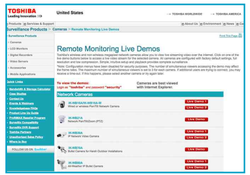
Mobile Apps
Supports Android, iPhone, iPad and Blackberry devices for live viewing over 3G/4G or WiFi. Download free under the search tem SURVEILLIX

Free Online Tools

www.toshibasecurity.com



Bandwidth & Storage Application tool – to help you select the correct recording system for your application. It will help you determine the total network bandwidth, storage capacity, and % of CPU resources used.



Remote Monitoring Live Demos – View streaming video over the Internet from a Toshiba camera you select. Please visit the live demo site at www.toshibasecurity.com/products/prod_demo.jsp

TOSHIBA
Leading Innovation >>>

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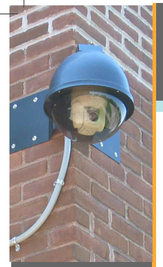

LCD Monitors

	P1710A	P1910A
LCD screen	17 inch	19 inch
Aspect ratio	5:4	5:4
Resolution scan	640 x 480 @ 56/60/75 Hz 800 x 600 @ 56/60/72/75 Hz 1024 x 768 @ 60/70/75 Hz 1280 x 1024 @ 60/75 Hz	640 x 480 @ 56/60/75 Hz 800 x 600 @ 56/60/72/75 Hz 1024 x 768 @ 60/70/75 Hz 1280 x 1024 @ 60/75 Hz
Brightness	350cd/m2	250cd/m2
Contrast	1000:1	1000:1
Dot pitch	0.264 (H) x 0.264 (V)	0.294 (H) x 0.294 (V)
Response time	5ms	4ms
Sync format	NTSC/PAL	NTSC/PAL
Input interfaces		
Video	D-SUB 15" x 1, DVI x 1, in/out x 2 BNC	D-SUB 15" x 1, DVI x 1, in/out x 2 BNC
Audio	In x 1, Out x 1 (mono)	In x 1, Out x 1 (mono)
Termination	75 ohm (auto termination)	75 ohm (auto termination)
Picture in picture	Yes	Yes
OSD language	English, 10 languages	English, 10 languages
VESA mounting	VESA	VESA
Weight	10.23 lbs (4.64 kg)	12.2 lbs (5.54 kg)
Dimensions (W x D x D)		
inches	15.2 x 16 x 9.4	15.2 x 17.2 x 9.4
mm	386 x 407 x 240	424 x 437 x 240
Safety & EMI	UL, CUL, FCC/B	UL, CUL, FCC/B
Power	DC 12V	DC 12V
Power consumption	40W max	40W max
Operating temperature	0°C - 40°C (32°F - 104°F)	0°C - 40°C (32°F - 104°F)
Humidity	20% - 80%	20% - 80%
Accessories	Power cord, VGA cable, HDMI adapter, Manual	Power cord, VGA cable, HDMI adapter, Manual
Optional accessories	HS-RM17: Rack mount bracket	HS-RM19: Rack mount bracket
RoHS	Yes	Yes

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Recording Software

- Designed for non-proprietary hardware and IT infrastructures
- Record up to 32 IP-based cameras
- Cameras need not be onsite to record
- Cost-effective solution to traditional DVRs
- Records image resolutions as high as the IP Camera supports
- Complete remote management; Setup control, user administration, video backup, live viewing, and search capabilities

SW-IP NETWORK VIDEO RECORDING SOFTWARE

REQUIREMENTS	8 Channel	16 Channel	32, 64 Channel
Processor	Core 2 Quad 2.33Ghz	Core 2 Quad 2.33Ghz	Core 2 Quad 2.83Ghz
Memory	2 GB DDR	2 GB DDR	3 GB DDR
Memory (w/POS)*	2 GB DDR	2 GB DDR	3 GB DDR
Storage space	based on video retention needs		
Video card	128MB PCI / PCIe / AGP Graphics adapter		
Video output	SVGA Monitor		
Network connection	100 MB	1000 MB	1000 MB
Operating system	Windows Vista, XP® or 2003 Server®		
Removable storage	CD-RW, DVD-RW		
Audio output	Microsoft® DirectX Compatible Soundcard		
SOFTWARE			
Video input	8 Network Cameras	16 Network Cameras	32 Network Cameras
Recording rate	Up to 30 PPS per camera		
PTZ control	Built-in Software Interface		
Image sizes	Determined By IP Camera		
Password control	User Defined		
Upgradeable	1, 4, 8, 16 Channel Upgrade(s)	--	

SURVEILLIX POS SOFTWARE

Software provides complete record of customer, cashier and merchandise purchased with text overlaid on video. POS/ATM data is stored on Surveillix DVR for access and search using several criteria. Below is a list of POS devices that are supported by Surveillix POS software. Please regularily check for the most current list by visiting www.toshibasecurity.com.

- AVE (VSI-PRO)*
- AVE (VSSI-PRO for ATM)*
- VeriFone (Ruby/Sapphire)
- Vardells
- SIDG
- TVS
- Micros 9700, 3700, E-7
- Aloha
- POSitouch
- PC Based POS (RS-232)
- HAT (Honeywell Text Inserter)
- TEC
- ISS45 V7

** A Cable 078 from AVE required for POS/ATM software integration*

DVR Compatibility

IP CAMERAS SUPPORTED

Toshiba	IK-WB21A, IK-WB01A, IK-WB02A, IK-WB11A, IK-WB21A, IK-WB15A, IK-WR01A, IK-WD01A, IK-WB70A IK-WB30A, IK-WB16A, IK-WB16A-W, IK-WR12A, IK-WB80A, IK-WD12A
ACTi	ACD-2100, ACD-2200, ACM-1011, ACM-1100, ACM-1231/1232, ACM-1311, ACM-1431, ACM-1511, ACM-3001, ACM-3011, ACM-3100, ACM-3211, ACM-3401/3411, ACM-3511, ACM-4000/4001, ACM-4100, ACM-4200/4201, ACM-5001, ACM-5601/5611, ACM-5711, ACM-7411, ACM-8201/8211, ACM-8511, CAM-5301/5321, CAM-6510, CAM-6610, CAM-6620, CAM-6630, CAM-7201, CAM-7301, CAM-7321 VIDEO SERVERS: SED2140
Arecont Vision	AV1300, AV1305, AV1355, AV2100, AV2105, AV2155, AV3100, AV3105, AV3155, AV5100, AV5105, AV5155, AV8155, AV8365
AXIS	205, 207/207W/207MW, 209FD/209FD-R, 209MFD/209MFD-R, 210/210A, 211/211A/211M/211W, 212 PTZ, 213 PTZ/214 PTZ, 215 PTZ, 216FD/ 216FD-V/ 216MFD/216MFD-V, 221, 223M, 225FD, 231D+, 232 D+, 233D, M1011/ M1011-W, M1031-W, P1311, P1343, P1344, P1346, Q1755, M3011, M3014, P3301/ P3301-V, P3343/ P3343-V/ P3343-VE, P3344/ P3344-V/ P3344-VE, Q6032, VIDEO SERVERS: Axis Video Servers (all)
D-Link	DCS2000, 3220, 5300, 6620, 900
IQ INVISION	IQEye-510, 511, 701, 702, 703, 705, 752, 753, 755, 040S, 041S, 042S, A20S, A22S, A23S, A25S, 851, 853, 855
Lumenera	LE175C
Mobotix	M1M
Panasonic	BB-HCM381, WV-NM100, WV-NP472, WV-NF284, WV-NP1000, WV-NP244, WV-NS202/ WV-NS202A, WV-NS954, WV-NW484, WV-NW964, WJ-NF302, WJ-NP304, WJ-NT304, WJ-NT314
Pixord	120/126, 200/206, 261
Samsung	SCC-C6475, SNC-B2315, SNC-B2355, SNC-B5368, SNC-B5395
Securgen	NE-VS100, NE-VS104, NE-VS400
Sony	SNC-CM120, SNC-CS10, SNC-CS11, SNC-CS20, SNC-CS50, SNC-DF40, SNC-DF50, SNC-DF70, SNC-DF80, SNC-DF85, SNC-DM110, SNC-DM160, SNC-DS10, SNC-DS60, SNC-P1, SNC-P5, SNC-RX530, SNC-RX550, SNC-RX570, SNC-R220, SNC-R225, SNC-RZ30, SNC-R250, SNC-Z20, SNT-704
Stardot	NetCam, NetCam SC, NetCam XL,
VivoTek	IP6122, FD6112V, PT7135, VS3100P

ACCESS CONTROL SUPPORTED

CanSec	Maestro, SmartLock
Dice Systems	Aegis
DSX	WinDSX, WinDSX-SQL, DSX-Soft I/O
Galaxy	Galaxy Version 7 and Version 4
Hartmann Controls	Protector Series
Keyscan	Keyscan Management System VII, Vantage
MAXxess	AXXess, EndPoint

INTEGRATION PLATFORMS SUPPORTED

Cernium	Perceptrak
Vidient	SmartCatch

MANAGEMENT SYSTEM SOFTWARE INTEGRATION – TOSHIBA IP CAMERAS

Milestone	XProtect, RemoteManager
OnSSI	NetDVMS, NetDVR, NetGuard, ProSight
Genetec	Omnicast, Synergist, Autovu
ControlWare	CWare Prime
Broadware	
Strand USA	
IP Video Corp.	Dynaview
IP Configure	

For updates on compatibility please visit the Toshiba website: www.toshibasecurity.com

TOSHIBA
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Toshiba Digital Video Recorders (Windows® XP Embedded)

RECORDER MODEL Video/Recording	DVSe 4U Hybrid Recorder	XVSe 3U Hybrid Recorder	NVSe 4U Network Recorder	IPSe 3U Network Recorder
Max Channels Supported	64	64	64	64
Analog Channels Included	8, 16, 32	16	--	--
IP Channels Included	8, 16, 32 (Expandable to 64 Max)	16 (Expandable to 64 Max)	8, 16, 32, 64 (Expandable to 64 Max)	8, 16, 32 (Expandable to 64 Max)
Analog Compression Formats	H.264, MPEG4, JPEG	H.264, MPEG4, JPEG	--	--
IP Compression Formats	H.264, MPEG4, JPEG	H.264, MPEG4, JPEG	H.264, MPEG4, JPEG	H.264, MPEG4, JPEG
Analog Frame Rate	240, 480 fps	240, 480 fps	--	--
IP Frame Rate	Up to 30 fps per camera[1]	Up to 30 fps per camera[1]	Up to 30 fps per camera[1]	Up to 30 fps per camera[1]
Analog Resolutions Supported	CIF: 320 x 240 2CIF: 720 x 240 4CIF: 720 x 480	CIF: 320 x 240 2CIF: 720 x 240 4CIF: 720 x 480	-- -- --	-- -- --
IP Resolutions Supported	Up to 5MP per camera[1]	Up to 5MP per camera[1]	Up to 5MP per camera[1]	Up to 5MP per camera[1]
ONVIF Compatible	Yes	Yes	Yes	Yes
Max HD Storage	12TB	9TB	12TB	9TB
Max Number of HD Drives	4	3	4	3
Removable HDD	Yes	No	Yes	No
RAID 5	Optional	No	Optional	No
External Storage Options	SCSI, eSATA x 1	SCSI, eSATA x 1	SCSI, eSATA x 1	SCSI, eSATA x 1
Optical Disc Drive	DVD/RW	DVD/RW	DVD/RW	DVD/RW
Alarm Inputs/Relay Outputs	8,16 / 8, 16	16 / 4	-	-
Audio Inputs/Outputs	8, 16 / 8, 16[2]	2, 16 / 2, 16[2]	8, 16 / 2	2, 16 / 2
Monitor Output 1	DVI-D x 1	DVI-D x 1	DVI-D x 1	DVI-D x 1
Monitor Output 2	HDMI x 1	HDMI x 1	HDMI x 1	HDMI x 1
Composite Video Output	RCA x 1	RCA x 1		
Ethernet	100/1000 Gigabit	100/1000 Gigabit	100/1000 Gigabit	100/1000 Gigabit
USB	USB 3.0 x 2, USB 2.0 x 8	USB 3.0 x 2, USB 2.0 x 8	USB 3.0 x 2, USB 2.0 x 8	USB 3.0 x 2, USB 2.0 x 8
Serial Interface	RS-232 for PTZ	RS-232 for PTZ	-	-
Keyboard/Mouse	Yes	Yes	Yes	Yes
Server OS	Windows 7 Embedded	Windows 7 Embedded	Windows 7 Embedded	Windows 7 Embedded
CPU	Intel Core i3 (Upgradeable to Core i7)	Intel Dual Core (Upgradeable to Core i7)	Intel Core i3, i5, i7 (Upgradeable to Core i7)	Intel Core i3, i5 (Upgradeable to Core i7)
RAM	2GB (Upgradeable to 4GB)	2GB (Upgradeable to 4GB)	2GB, 4GB (Upgradeable to 4GB)	2GB (Upgradeable to 4GB)
Rackmount size	4U	3U	4U	3U
Dimensions (LxWxH)	21.5"(54.61 cm) / 17.25"(43.815 cm) / 7"(17.78 cm)	21.5"(54.61 cm) / 17.25"(43.815 cm) / 5.25"(13.34 cm)	21.5"(54.61 cm) / 17.25"(43.815 cm) / 7"(17.78 cm)	21.5"(54.61 cm) / 17.25"(43.815 cm) / 5.25"(13.34 cm)
Weight	47 - 52 lbs	30 - 33 lbs	47 - 52 lbs	30 - 33 lbs
Power Requirements	100 - 240V AC (50Hz/60Hz)	100 - 240V AC (50Hz/60Hz)	100 - 240V AC (50Hz/60Hz)	100 - 240V AC (50Hz/60Hz)
Power Consumption	240 W (typical), 400 W (Max)	240 W (typical), 400 W (Max)	240 W (typical), 400 W (Max)	240 W (typical), 400 W (Max)
Redundant Power Supply	Optional	No	Optional	No
Remote Clients				
Surveillix Central Station (SCS)	Included	Included	Included	Optional
Remote Lite	Included	Included	Included	Included
Web Browser	Included	Included	Included	Included
Emergency Agent	Included	Included	Included	Included
Mobile Clients Supported				
Android	Yes	Yes	Yes	Yes
iPhone/iPad	Yes	Yes	Yes	Yes
Blackberry	Yes	Yes	Yes	Yes
Managed Recorder Health	Yes	Yes	Yes	Yes

Notes: 1: Refer to IP Calculator on www.toshibasecurity.com for IP camera limitations 2: 240V Models have 2 channels of audio